

PATENT ASSIGNMENT

WHEREAS, Cirrus Logic, Inc., a California corporation with offices located at 3100 West Warren Avenue, Fremont, California 94538, ("Assignor") is the sole and exclusive owner of the entire right, title and interest in certain United States and foreign patents and patent applications and the inventions covered thereby, identified in the attached Exhibit A ("Acquired Patents"); and

WHEREAS, S3 Incorporated, a Delaware corporation with offices located at 2801 Mission College Blvd; Santa Clara, California, 95054 ("Assignee") is desirous of acquiring the entire right, title and interest in, to and under said Acquired Patents--subject to the Patent Sale, Assignment and Cross-License Agreement by and among Assignee, Assignor and Assignor's subsidiary, Cirrus Logic International Ltd., dated as of January 26, 1998, (the "Cross-License Agreement");

NOW, THEREFOR, to all whom it may concern; be it known for good, sufficient and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over to Assignee, said Acquired Patents for its own use and enjoyment and that of its successors, assigns or other legal representatives, to the end of the term or terms for which said Acquired Patents are or may be granted or issued--subject to the Cross-License Agreement.

IN WITNESS WHEREOF, Assignor and Assignee have caused these presents to be signed by their officers duly authorized to execute this agreement of behalf of the parties recited above.

CIRRUS LOGIC, INC.

By: 

Robert F. Donohue

Its: Vice President; Chief Legal Officer, General Counsel, and Secretary

S3 Incorporated

By: 

Terry N. Holdt

Its: Chairman and CEO

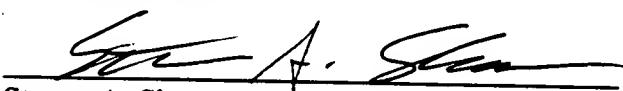
State of California

ss

County of Alameda

On 5/13/98, before me; Steven A. Shaw, Notary Public, personally appeared Robert F. Donohue personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

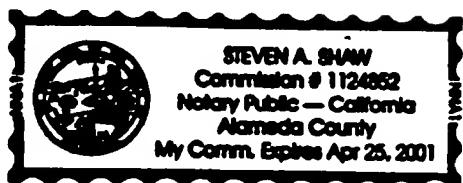
WITNESS my hand and official seal



Steven A. Shaw

Notary Public in and for the State of California

My Commission Expires: April 25, 2001



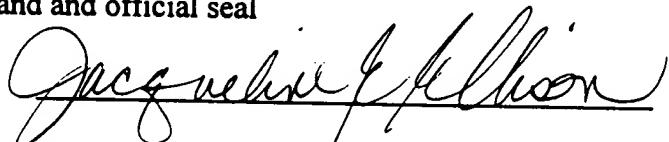
State of California

ss

County of Santa Clara

On March 16, 1998, before me; JACQUELINE ELLISON (Notary Public) personally appeared Terry N. Holdt personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal



Notary Public in and for the State of California

My Commission Expires: Feb 23, 2000

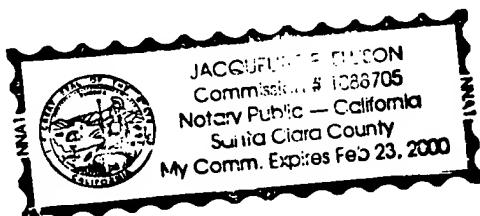


EXHIBIT A

Patent Number Title

5,581,279	VGA CONTROLLER CIRCUITRY
5,608,864	VARIABLE PIXEL DEPTH AND FORMAT FOR VIDEO WINDOWS
5,521,614	METHOD AND APPARATUS FOR EXPANDING AND CENTERING VGA TEXT AND GRAPHICS
5,537,128	SHARED MEMORY FOR SPLIT-PANEL LCD DISPLAY SYSTEMS
5,625,379	VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS
5,402,513	VIDEO WINDOW GENERATOR WITH SCALABLE VIDEO
5,293,159	METHOD AND APPARATUS FOR PRODUCING PERCEPTION OF HIGH QUALITY GRayscale SHADING ON DIGITALLY COMMANDED DISPLAYS
5,241,642	IMAGE MEMORY CONTROLLER FOR CONTROLLING MULTIPLE MEMORIES AND METHOD OF OPERATION
5,422,827	INTEGRATED VIDEO SCALING AND SHARPENING FILTER
5,440,683	VIDEO PROCESSOR MULTIPLE STREAMS OF VIDEO DATA IN REAL-TIME

Cirrus Ref. No.	Serial No. Patent No.	Title
0114	08/061,802	PROCESS FOR PRODUCING SHADED COLORED IMAGES USING DITHERING
0125	08/402,862	VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS
0129	08/098,846	A SYSTEM AND METHOD FOR THE MIXING OF GRAPHICS AND VIDEO SIGNALS (abandoned)
0129C	08/683,102	A SYSTEM AND METHOD FOR THE MIXING OF GRAPHICS AND VIDEO SIGNALS
0319	08/474,416	BRIGHTNESS CONTROL FOR LIQUID CRYSTAL DISPLAYS
0329	5,668,941	OPTIMUM IMPLEMENTATION OF X-Y CLIPPING ON PIXEL BOUNDARY
0353	08/536,315	METHOD AND APPARATUS FOR UPSCALING VIDEO IMAGES IN A GRAPHICS CONTROLLER CHIP
0369	5,703,618	A METHOD AND APPARATUS FOR UPSCALING VIDEO IMAGES WHEN PIXEL DATA USED FOR UPSCALING A SOURCE VIDEO IMAGE ARE UNAVAILABLE
0379	08/576,870	METHOD AND APPARATUS FOR PROCESSING GRAPHICS AND VIDEO PIXEL DATA IN A GRAPHICS CONTROLLER
0380	5,675,773	A GRAPHICS DISPLAY SYSTEM WITH A LOW LEVEL HARDWARE DEPENDENT GRAPHICS LIBRARY
0391	08/619,203	HARDWARE ASSIST FOR YUV DATA FORMAT CONVERSION TO SOFTWARE MPEG DECODER
0469	08/673,774	OBJECT REFERENCED MEMORY MAPPING
0479	08/672,620	REGISTER SET REORDERING FOR A GRAPHICS PROCESSOR BASED UPON THE TYPE OF PRIMITIVE TO BE RENDERED
0484	08/707,937	APPARATUS, SYSTEMS AND METHODS FOR CONTROLLING DATA OVERLAY IN MULTIMEDIA DATA PROCESSING AND DISPLAY SYSTEMS USING MASK TECHNIQUES
0495	08/724,618	INSTRUCTION FORMAT FOR ENSURING SAFE EXECUTION OF DISPLAY LIST
0520	08/841,360	METHOD FOR CONFIGURING A COMPOSITING BUFFER INTO VARIABLE BAND SIZES
0526	08/803,460	METHOD FOR TRIANGLE SUBDIVISION IN COMPUTER GRAPHICS TEXTURE MAPPING TO ELIMINATE ARTIFACTS IN HIGH PERSPECTIVE POLYGONS

0527 08/777,557 IMPROVED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC

0527P 08/856,546 SOFTWARE-BASED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC

0546 08/803,461 METHOD AND APPARATUS FOR ADJUSTING GRAPHICS PROCESSING PROCEDURES BASED ON A SELECTABLE SPEED/QUALITY GAUGE

0548 08/818,053 METHOD AND APPARATUS FOR SHORTEN DISPLAY LIST INSTRUCTIONS

0591 08/821,125 METHOD AND APPARATUS FOR PROGRAMMING A GRAPHICS SUBSYSTEM REGISTER SET

0595 08/822,069 METHOD FOR EMULATING VIDEO PORT MANAGER INTERFACE

0734 08/968,309 OPPOSING DIRECTIONAL FILL CALCULATORS IN A GRAPHICS PROCESSOR

Unfiled Draft Applications

Cirrus Ref. Number   Title

0515            GRAPHICS PRIMITIVES DECOMPOSITION USING EDGE FUNCTIONS AND  
                  RECURSIVE TILE SUBDIVISION

0541            PARALLEL ARCHITECTURE FOR GRAPHICS PRIMITIVES  
                  DECOMPOSITION

FOREIGN PATENT APPLICATIONS

EUROPE

0168EP 95917194.3 VARIABLE PIXEL DEPTH AND FORMAT FOR VIDEO WINDOWS  
0215EP 93301013.4 VIDEO PROCESSOR MULTIPLE STREAMS OF VIDEO DATA IN REAL-TIME  
0369EP 96308452.0 A METHOD AND APPARATUS FOR UPSCALING VIDEO IMAGES WHEN PIXEL DATA USED FOR UPSCALING A SOURCE VIDEO IMAGE ARE UNAVAILABLE  
0380EP 96119990.8 A GRAPHICS DISPLAY SYSTEM WITH A LOW LEVEL HARDWARE DEPENDENT GRAPHICS LIBRARY  
0391EP 97104446.6 HARDWARE ASSIST FOR YUV DATA FORMAT CONVERSION TO SOFTWARE MPEG DECODER  
0469EP 97304347.8 OBJECT REFERENCED MEMORY MAPPING  
0479EP 97304513.1 REGISTER SET REORDERING FOR A GRAPHICS PROCESSOR BASED UPON THE TYPE OF PRIMITIVE TO BE RENDERED

JAPAN

0168JP 7-528390 VARIABLE PIXEL DEPTH AND FORMAT FOR VIDEO WINDOWS  
0215JP 59,411/93 VIDEO PROCESSOR MULTIPLE STREAMS OF VIDEO DATA IN REAL-TIME  
0369JP 8-312384 A METHOD AND APPARATUS FOR UPSCALING VIDEO IMAGES WHEN PIXEL DATA USED FOR UPSCALING A SOURCE VIDEO IMAGE ARE UNAVAILABLE  
0380JP 8-341801 A GRAPHICS DISPLAY SYSTEM WITH A LOW LEVEL HARDWARE DEPENDENT GRAPHICS LIBRARY  
0391JP 9-687573 HARDWARE ASSIST FOR YUV DATA FORMAT CONVERSION TO SOFTWARE MPEG DECODER  
0469JP 9-167231 OBJECT REFERENCED MEMORY MAPPING  
0479JP 9-172331 REGISTER SET REORDERING FOR A GRAPHICS PROCESSOR BASED UPON THE TYPE OF PRIMITIVE TO BE RENDERED

SOUTH KOREA

0168KR 96-706097 VARIABLE PIXEL DEPTH AND FORMAT FOR VIDEO WINDOWS

TAIWAN

0369TW 85114412 A METHOD AND APPARATUS FOR UPSCALING VIDEO IMAGES WHEN PIXEL DATA USED FOR UPSCALING A SOURCE VIDEO IMAGE ARE UNAVAILABLE  
0380TW 86102127 A GRAPHICS DISPLAY SYSTEM WITH A LOW LEVEL HARDWARE DEPENDENT GRAPHICS LIBRARY

0391TW 86102702 HARDWARE ASSIST FOR YUV DATA FORMAT CONVERSION TO SOFTWARE MPEG DECODER

0469TW 86107696 OBJECT REFERENCED MEMORY MAPPING

0479TW 86107629 REGISTER SET REORDERING FOR A GRAPHICS PROCESSOR BASED UPON THE TYPE OF PRIMITIVE TO BE RENDERED

0495TW 86114236 INSTRUCTION FORMAT FOR ENSURING SAFE EXECUTION OF DISPLAY LIST

0527TW 86120015 IMPROVED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC

PCT

0168 PCT/US95/05259 VARIABLE PIXEL DEPTH AND FORMAT FOR VIDEO WINDOWS

0495 PCT/US97/17418 INSTRUCTION FORMAT FOR ENSURING SAFE EXECUTION OF DISPLAY LIST

0527 PCT/US97/23908 IMPROVED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC

0595 \* METHOD FOR EMULATING VIDEO PORT MANAGER INTERFACE

\*Assignee may insert serial numbers for 0595 Taiwan and PCT application once they are known.